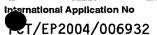
## INTERNATIONAL SEARCH REPORT



CLASSIFICATION OF SUBJECT MATTER PC 7 B01J27/16 B01J B01J27/182 B01J37/03 C10G49/06 B01J35/10 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J C10G CO1B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X EP 0 529 923 A (UOP INC) 1-14.3 March 1993 (1993-03-03) 23-27 the whole document Α. EP 0 748 652 A (ENIRICERCHE SPA) 15-22 18 December 1996 (1996-12-18) claims 8,9,11,16-18 US 4 430 252 A (RYU JI-YONG) 7 February 1984 (1984-02-07) Α PATENT ABSTRACTS OF JAPAN vol. 2002, no. 05, 3 May 2002 (2002-05-03) & JP 2002 028491 A (CATALYSTS & CHEM IND CO LTD), 29 January 2002 (2002-01-29) abstract Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 13 September 2004 22/09/2004

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## INTERNATIONAL SEARCH REPORT

International Application No T/EP2004/006932

C.(Continua	C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT										
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.									
А	EP 1 101 813 A (ENITECNOLOGIE SPA ;AGIP PETROLI (IT)) 23 May 2001 (2001-05-23) cited in the application										
	·										
	·· · · · · · · · · · · · · · · · · · ·										
	•										

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No						
T/EP2004/006932						

Patent documen cited in search rep		Publication date		Patent family member(s)		Publication date
EP 0529923	A	03-03-1993	US	5139989	Α	18-08-1992
		00 00 2550	ĂÜ	650560		23-06-1994
			ΑÜ	2130192		04-03-1993
			CA	2076607		01-03-1993
			DE		D1	16-11-1995
			DE		T2	21-03-1996
			EP	0529923		03-03-1993
			ES	2078661	T3	16-12-1995
			ID	1047	В	29-10-1996
			US	5230789	Α	27-07-1993
EP 0748652	Α	18-12-1996	IT	MI951283	A1	16-12-1996
			CN	1138566	A,B	25-12-1996
			EA	960031	A2	31-12-1996
			EP	0748652	A1	18-12-1996
			JP	9077513		25-03-1997
~~~~~			US	6638888	B1	28-10-2003
US 4430252	Α	07-02-1984	CA	1205450	A1	03-06-1986
			EP	0111998		27-06-1984
			JP	59105847		19-06-1984
			US	4560790	Α	24-12-1985
JP 20020284	191 A	29-01-2002	NONE			
EP 1101813	Α	23-05-2001	IT	MI992425	A1	21-05-2001
		<del>-</del>	ĪŤ	MI20001819		04-02-2002
,			EP		A1	23-05-2001
			NO	20005840	Α	21-05-2001
			US	6544407	B1	08-04-2003
			ZA	200006696	Α	17-05-2001